

**52906, 33408, AND 12189, NOVEL POTASSIUM CHANNEL FAMILY  
MEMBERS AND USES THEREOF**

Abstract

The invention provides isolated nucleic acids molecules, designated 52906,  
5 33408, or 12189 nucleic acid molecules, which encode novel potassium channel  
members. The invention also provides antisense nucleic acid molecules, recombinant  
expression vectors containing 52906, 33408, or 12189 nucleic acid molecules, host cells  
into which the expression vectors have been introduced, and nonhuman transgenic  
animals in which a 52906, 33408, or 12189 gene has been introduced or disrupted. The  
10 invention still further provides isolated 52906, 33408, or 12189 proteins, fusion proteins,  
antigenic peptides and anti-52906, 33408, or 12189 antibodies. Diagnostic methods  
utilizing compositions of the invention are also provided.

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